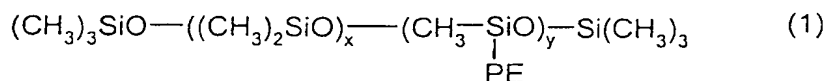


1. Process for the production of polyurethane urea fibers by the dry spinning or wet spinning process, which comprises preparing a polyurethane urea spinning solution, spinning the spinning solution using a spinneret, forming threads beneath the spinneret by removing the spinning solvent either by drying or in a precipitation bath, finishing and optionally twisting and winding the spun fibers, wherein, prior to spinning

B) from 0.1 to 5 wt.% polydimethylsiloxane having a viscosity of from 2 to 20 cSt (25°C),

C) from 0.1 to 5 wt.% alkoxyated polydimethylsiloxane (PDMS) corresponding to the general formula (1)



wherein PE is the monovalent radical  $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{O}(\text{eo}_v/\text{po}_w)_m\text{Z}$ , wherein eo = ethylene oxide, po = propylene oxide and Z is either hydrogen or a  $\text{C}_1-\text{C}_6$ -alkyl radical,

v and w are integers greater than or equal to 0, wherein v and w are not simultaneously 0,

x, y and m are integers greater than or equal to 1, which are preferably so selected that the number average molecular weight of the compound of formula (1) does not exceed 30,000 g/mol. and the viscosity of component C) is from 10 to 5000 cSt (25°C), and

D) from 0.01 to 3.0 wt.% of a metal salt of a saturated or unsaturated, mono- or bi-functional  $\text{C}_6-\text{C}_{30}$  fatty acid, wherein the metal is a metal

from the first, second or third main group of the periodic system, or is  
zinc

based on the weight of the finished polyurethane urea fibers.

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2. Process according to claim 1, wherein said spinning process is a dry spinning  
process.

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3. Process according to claim 1, wherein said amount of polydimethylsiloxane  
is from 0.2 to 3 wt.%.

4. Process according to claim 3, wherein said amount of polydimethylsiloxane  
is from 0.3 to 2 wt%.

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5. Process according to claim 1, wherein said amount of alkoxyated  
polydimethylsiloxane is from 0.2 to 3 wt.%.

6. Process according to claim 5, wherein said amount of alkoxyated  
polydimethylsiloxane is from 0.3 to 2wt.%.

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7. Process according to claim 1, wherein said amount of metal salt is from 0.05  
to 2 wt.%.

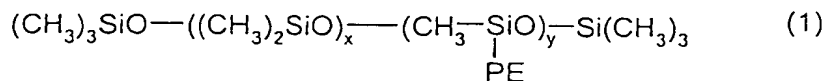
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8. Process according to claim 7, wherein said amount of metal salt is from 0.1  
to 1.5 wt.%.

9. Process according to claim 1, wherein the polyurethane urea content of the  
spinning solution is adjusted to produce finished polyurethane urea fibers  
containing from 99.7 to 65 wt.% polyurethane urea.

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10. Process according to claim 9, wherein said fibers contain 99.5 to 80 wt.% polyurethane.
- 5 11. Process according to claim 10, wherein said fibers contain 99 to 85 wt.% polyurethane.
- 10 12. Process according to claim 1, wherein components B), C) and D) are added to the spinning solution in such amounts as will result in a weight ratio of polydimethylsiloxane B) to alkoxyated polydimethylsiloxane C) in the finished fibers of 2:1 to 1:2 and a weight ratio of polydimethylsiloxane B) to fatty acid salt D) of 2:1 to 1:2.
- 15 13. Process according to claim 1, wherein the polydimethylsiloxanes B), alkoxyated polydimethylsiloxanes C) and fatty acid salts D) are added to the spinning solution in the form of a 10 to 25 wt.% stock formulation solution in the spinning solvent, based on the sum of the amounts of components B), C) and D).
- 20 14. Process according to claim 1, wherein the denier of the finished spun fibers is from 10 to 1280 dtex.
15. Polyurethane urea fibers comprising
- 25 A) from 99.7 to 65 wt.% polyurethane urea polymer,
- B) from 0.1 to 5 wt.% polydimethylsiloxane having a viscosity of from 2 to 20 cSt (25°C),
- 30 C) from 0.1 to 5 wt.% alkoxyated polydimethylsiloxane (PDMS) corresponding to the general formula (1)



wherein

PE is the monovalent radical  $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{O}(\text{eo}_v/\text{po}_w)_m\text{Z}$ ,

eo represents ethylene oxide,

po represents propylene oxide and

Z is either hydrogen or a  $\text{C}_1$ - $\text{C}_6$ -alkyl radical,

v and w are integers greater than or equal to 0, wherein v and w are not simultaneously 0,

x, y and m are integers greater than or equal to 1, which are preferably so selected that the number average molecular weight of the compound of formula (1) does not exceed 30,000 g/mol. and the viscosity of component C) is from 10 to 5000 cSt (25°C),

D) from 0.01 to 3 wt.% of a metal salt of a saturated or unsaturated, mono- or bi-functional  $\text{C}_6$ - $\text{C}_{30}$  fatty acid, wherein the metal is a metal selected from the first, second or third main group of the periodic system, or is zinc,

and

E) from 0 to 20 wt.% additives,

wherein the polydimethylsiloxane, the alkoxyated polydimethylsiloxane and the fatty acid salt are finely dispersed or dissolved in the fibers.

- 5 16. Polyurethane urea fibers according to claim 15, wherein said amount of polyurethane urea polymer is from 99.5 to 80 wt.%.
17. Polyurethane urea fibers according to claim 16, wherein said amount of polyurethane urea polymer is from 99 to 85 wt.%.
- 10 18. Polyurethane urea fibers according to claim 15, wherein said amount of polydimethylsiloxane is from 0.2 to 3 wt.%.
19. Polyurethane urea fibers according to claim 18, wherein said amount of polydimethylsiloxane is from 0.3 to 2 wt.%.
- 15 20. Polyurethane urea fibers according to claim 15, wherein said amount of alkoxyated polydimethylsiloxane is from 0.2 to 3 wt. %.
- 20 21. Polyurethane urea fibers according to claim 20, wherein said amount of alkoxyated polydimethylsiloxane is from 0.3 to 2 wt. %.
22. Polyurethane urea fibers according to claim 15, wherein said amount of metal salt is from 0.05 to 2 wt. %.
- 25 23. Polyurethane urea fibers according to claim 22, wherein said amount of metal sale is from 0.1 to 1.5 wt. %.
24. Polyurethane urea fibers according to claim 15, wherein said amount of additives is from 0 to 15 wt. %.

25. Elastic fabrics, knitted goods, or hosiery comprising the polyurethane urea fibers of claim 15..